

Applying Slope, Midpoint, and Length to Analyze Geometry

Date: _____

EX: The vertices of a quadrilateral are $S(1, 2)$, $T(3, 5)$, $U(6, 7)$ and $V(4, 4)$.

a) Verify that $STUV$ is a parallelogram.

b) Verify the diagonals of $STUV$ bisect each other.

EX: Triangle ABC has vertices A(4, 2), B(0, 4) and C(-2, -2). Determine the triangle's "circumcentre."

NOTE: From the handout - recall - the circumcentre is the point of intersection of the right bisectors of all three sides of the triangle